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IS 8672 (1989): Pliers - Flat Nose Without Cutter, Short
[PGD 5: Assembly Hand Tools]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

“पुनर्विचार १९९४”
“RE-AFFIRMED 1994”

**PLIERS — FLAT NOSE WITHOUT
CUTTER, SHORT — SPECIFICATION**

(First Revision)

भारतीय मानक

चपटे अग्रभाग वाले प्लास, कर्तक रहित, छोटे — विशिष्ट

(पहला पुनरीक्षण)

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BUREAU OF INDIAN STANDARDS
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NEW DELHI 110002

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Price Group 1

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards on 6 December 1989 after the draft finalized by the Assembly Hand Tools Sectional Committee had been approved by the Production Engineering Division Council.

This Indian Standard was first issued in 1977. This revision has been taken up in order to align the standard with the work done at the international level and to give the latest references of revised standards. Dimensions have also been aligned with the international practices.

Flat nose pliers without cutter and with long nose are not covered in this standard. These have separately been covered in IS 3552 : 1989.

While preparing this standard, details have been taken from ISO 5745-1982 'Pliers and nippers — Pliers for gripping and manipulating — Dimensions', issued by the International Organization for Standardization (ISO).

Indian Standard

PLIERS — FLAT NOSE WITHOUT CUTTER, SHORT — SPECIFICATION

(First Revision)

1 SCOPE

1.1 This standard covers the dimensions and other requirements of flat nose pliers without cutter having short nose.

2 REFERENCES

2.1 The following Indian Standards are necessary adjunct to this standard:

IS No.	Title
IS 2615 : 1989	Technical supply conditions for pliers, pincers and nippers (second revision)
IS 11526 : 1986	Nomenclature for pliers, pincers and nippers

3 NOMENCLATURE

3.1 Nomenclature of the pliers shall be as given in IS 11525 : 1986.

4 DIMENSIONS — See Table 1.

5 GENERAL REQUIREMENTS

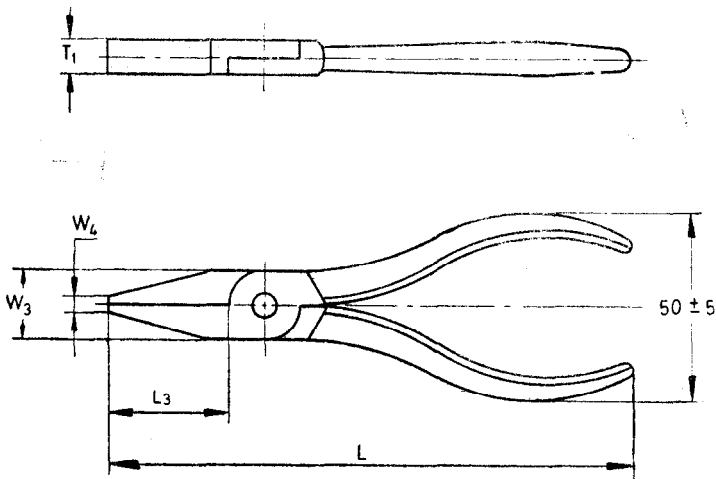
5.1 The material, manufacture, workmanship and finish, tests, preservation and packing and sampling shall conform to IS 2615 : 1989.

6 HARDNESS

6.1 The hardness of jaws shall be 350 to 550 HV (≈ 36 to 52 HRC).

Table 1 Dimensions for Flat Nose Pliers Without Cutter — Short

All dimensions in millimetres.



Nominal Size	L	Tol on L	L ₃	Tol on L ₃	W ₃	W ₄	T ₁
125	125	± 6	25	$\begin{smallmatrix} 0 \\ -5 \end{smallmatrix}$	16	3.2	8
140	140	± 7	32	$\begin{smallmatrix} 0 \\ -6.3 \end{smallmatrix}$	18	4	9
160	160	± 8	40	$\begin{smallmatrix} 0 \\ -8 \end{smallmatrix}$	20	5	10

7 TESTS

7.0 In addition to the tests specified in IS 2615 : 1989, the tests laid down in 7.1 to 7.3 shall also be carried out.

7.1 *Bend Test* — The pliers when tested by bending a hard-drawn steel wire of 1.25 mm diameter shall work satisfactorily and shall not show any sign of damage or indentation on the nose on completion of the test.

7.2 *Torsion Test* — The pliers shall be tested for the requirements as laid down in 9.4 of IS 2615 : 1989. The testing torque to be employed shall be as given in Table 2.

7.3 *Handle Load Test* — The pliers shall be tested for permanent set as given in 9.5 of IS 2615 :

1989. The load to be employed shall be as given in Table 2 and the permanent set shall not exceed the values given in Table 2.

8 DESIGNATION

8.1 A flat nose plier without cutter, short of nominal size 140 mm shall be designated as:

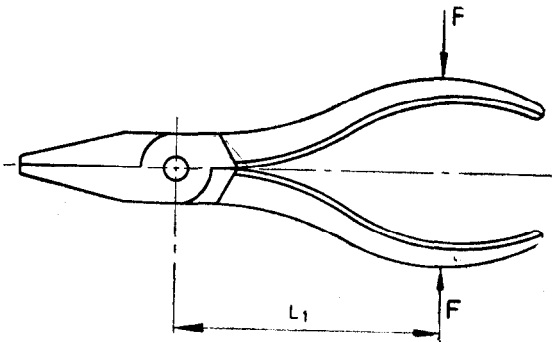
Plier Short 140 — IS 8672

9 MARKING

9.1 The pliers shall be clearly and legibly stamped with the nominal size and indication of the source of manufacture. The year of manufacture may also be marked if required by the purchaser.

Table 2 Test Requirements for Flat Nose Pliers Without Cutter, Short
(Clauses 7.2 and 7.3)

All dimensions in millimetres.



Nominal Size	L	L ₁	Torsion Test		Load Test	
			Torque T Nm	Twist Max α°	Load (F) N	Permanent Set S Max
125	125	63	3	± 15°	630	1
140	140	71	3.5	± 15°	710	1
160	160	80	4.5	± 15°	800	1

NOTE — S = W₁ — W₂ (see IS 2615 : 3989)

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